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EXPORTS OF COMMODITIES FROM CALIFORNIA

CALENDAR YEAR 1981

ANNUAL BULLETIN

CALIFORNIA CROP AND LIVESTOCK REPORTING SERVICE
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EXPORTS OF AGRICULTURAL COMMODITIES PRODUCED IN CALIFORNIA
CALENDAR YEAR 1981

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DATA INCLUSIONS AND LIMITATIONS: Data sources often differ in what is included or excluded. The following are guidelines for the data used in this report. The fact that various export studies report different numbers is often explained by whether or not it includes or excludes some of the following items or trade patterns.

1. Shipments between the 50 states, Puerto Rico, and U.S. island possessions (Virgin Islands, Guam, etc.) are excluded from the data on which this report is based.
2. Shipments in transit from one country to another through the U.S. are excluded.
3. Shipments to U.S. Armed Forces and Diplomatic Missions abroad for their own use are excluded.
4. Shipments under P.L. 83-480 (Agricultural Trade Development and Assistance Act) and P.L. 87-195 (Act for International Development) are included.
5. Agricultural commodities covered in this report consist of non-marine food products and agricultural products that have not passed through complex manufacturing processes. Raw hides and skins, vegetable and animal fats and oils, and unrefined wines are included. Such manufactured items as textiles, leather, boots and shoes, baked goods, and distilled alcoholic beverages are not included.
6. Both the California Crop and Livestock Reporting Service and the U.S. Department of Commerce are constantly updating and revising data. The most recent available revision was used at the time of the assembly of this report, April-June 1982.

INFORMATION SOURCES: The following is a list of major sources used in this report.

U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division data series EA622, U.S. Exports, Schedule B Schedule by Schedule B Number by Unit Control by Country of Destination by Customs District of Exportation by Economic Class and Method of Transportation, available on magnetic computer tape.

U.S. Department of Agriculture, Agricultural Statistics, 1981.

U.S. Department of Agriculture, Statistical Reporting Service, Foreign Agricultural Trade of the United States, especially the March/April 1982 issue.

Agriculture Canada. Annual Unload Report -- Fresh Fruits and Vegetables on 12 Canadian Markets.

U.S. Department of Agriculture publications: Foreign Agriculture, U.S.D.A. News Weekly Round-up of World Economic Conditions in Relation to Agricultural Trade, Agricultural Outlook, and periodic releases of the Crop Reporting Board.

Federal/State Market News Service Publications. Frequent market reports sometimes include exported commodities.

Marketing Organizations and Individuals. Many people supplied opinions and information about the commodities with which they are professionally involved. We wish to thank all those who contributed their expertise.

INTRODUCTION: This 1981 estimate of California's agricultural exports is being published in two sections: (1) the Annual Export Report and (2) a Data Appendix. Tables 1-5 of the usual export report are available separately from the Data Appendix that contains tables of commodity shipments by country of destination and tables showing all agricultural commodities shipped to selected countries.

Using a calendar year basis complicates comparisons of exports to crop data with varying crop or marketing year cut-off dates. Where crops are harvested late in the year and marketed throughout the following year (e.g., cotton, almonds), the comparisons shown are with the production of the preceding year. Please note footnotes to Table 3 to ascertain whether this delayed comparison system has been used.

The comparisons of both California and U.S. crop values to exports in Table 3 are calculated using average farm level prices at the state and national level. Since exported produce is often of higher than average quality and may represent off-season high value produce in some categories, the use of average prices probably underestimates the value of the exported portion of the crop.

Farm values and quantities used to compare exports to the total crop were taken from existing publications of the California Crop and Livestock Reporting Service and the U.S. Department of Agriculture's Statistical Reporting Service published material. Conversion of commodities from export form to farm production units was done using Statistical Bulletin No. 362, Conversion Factors and Weights and Measures for Agricultural Commodities and Their Products. Table 5 comparisons between California and U.S. total exports are done solely on export values.

The Data Appendix containing Tables 6 and 7 is being published separately from the current bulletin. In the commodity by country tables both U.S. and California port data are shown for most agricultural commodities that appear in Table 5. In Table 7, all U.S. agricultural exports and their portion moving through California port districts plus a separation between sea and air shipments are shown by country. The 25 leading markets for U.S. agricultural products are included.

The final estimates of California's agricultural exports in this bulletin were made using the port data, information from the Canadian government on unloads of fresh fruits and vegetables and by contacting representatives of commodity groups, exporters, and handlers to obtain their opinions. Each commodity was treated separately and the estimate was made on the best available information. It should be emphasized that these are estimates since exact data do not exist for this material.

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TABLE 1. ESTIMATED VALUE OF CALIFORNIA'S LEADING AGRICULTURAL EXPORTS VALUED AT PORT OF EXPORTATION, CALENDAR YEARS 1980 AND 1981 WITH PERCENTAGE CHANGE

Commodity	Commodity Ranking		Value		Value Change	
	1980	1981	1980	1981	1979-1980	1980-1981
			- - - - Dollars - - - -		Percent	
Cotton Lint	1	1	1,135,559	989,253	+ 41	- 13
Rice	3	2	318,808	321,440	+117	+ 1
Wheat	4	3	283,145	315,844	+ 72	+ 12
Almonds	2	4	429,817	307,324	+ 50	- 29
Grapes (Incl. Fresh, Raisins, & Crushed)	5	5	230,864	260,766	+ 31	+ 13
Oranges (Incl. Fresh, Juice, & Oil)	6	6	177,094	204,749	+ 67	+ 16
Lemons (Incl. Fresh, Juice, & Oil)	7	7	93,210	92,044	- 4	- 1
Walnuts	9	8	82,957	88,503	+ 51	+ 7
Beef Cattle & Products	8	9	91,762	86,695	- 16	- 6
Peaches (Incl. Canned & Portion of Mixtures)	10	10	75,372	73,896	+ 21	- 2
Prunes	11	11	64,861	71,291	+ 18	+ 10
Cottonseed	12	12	50,633	54,212	+ 32	+ 7
Tomatoes (Incl. Fresh & Processed)	14	13	43,782	50,648	- 13	+ 16
Dry Beans	17	14	42,093	45,674	+ 69	+ 9
Onions	19	15	28,497	42,448	+ 36	+ 49
Dairy Cattle & Products	15	16	42,277	38,905	+ 37	- 8
Lettuce	18	17	29,740	36,709	+ 9	+ 23
Chickens & Eggs	13	18	43,801	36,588	+182	- 16
Alfalfa	16	19	42,276	34,162	+ 27	- 24
Avocados	N/A	20	N/A	23,551	N/A	N/A
Pears	20	21	18,477	19,602	+ 19	+ 6
Grapefruit	21	22	17,821	18,361	+ 84	+ 3
Flowers & Plants	25	23	13,052	16,081	- 8	+ 23
Garlic	*	24	8,032	15,224	- 15	+ 90
Plums	24	25	13,278	14,591	+ 43	+ 10
Remaining Estimated Commodities			71,816	109,539		
All Other Commodities			527,013	830,065		
TOTAL			3,997,823	4,198,165	+ 43	+ 5

*First year on list.

HIGHLIGHTS OF CALIFORNIA'S AGRICULTURAL EXPORTS
CALENDAR YEAR 1981

Table 1

California's agricultural exports were valued at $4.2 billion in calendar year 1981, a 5% increase over 1980. This gain is considerably less than the previous year's 43% increase and follows a national trend brought about by the slowing of economic activities throughout the world and a strengthening of the American dollar that makes our exports more expensive to importing nations.

Cotton lint remains California's leading agricultural export although its value dropped 13% from 1980. Almonds, the second leading export in 1980 were recorded at 29% less in 1981 and their place on the list of export commodities fell from second to fourth. Rice and wheat rose to second and third and grapes remained unchanged in fifth place followed by oranges, lemons, and walnuts.

If citrus crops (oranges, lemons, grapefruit, and tangerines) were considered as one crop, they would be equal to wheat, the third place commodity on the 1981 list. Among the remaining commodities, the most evident changes were in chickens and eggs that fell from 13th to 18th place and onions that climbed from 19th to 15th.

Two new commodities appear on the 1981 list. This is the first year that avocados have been estimated separately, a change made possible by the creation of a new export classification number by the Department of Commerce. Already they have claimed the 20th ranking. Garlic appears for the first time on the top list, a result of a combination of export opportunities, including lowered trade barriers in Brazil and Eastern Europe and a poor crop in Spain. With a 90% increase over 1980, it is California's fastest growing agricultural export in 1981.

Cotton continues its dominance of the California agricultural export field by accounting for 24% of the total value. The diversity of other products exported is emphasized by the fact that the next five commodities on the list have 5-8% each of the total value and all commodities below the first nine have less than 2% of the total.

The importance of international trade to California is emphasized by the fact that one of every ten jobs in California exists because of international trade. In California's agricultural sector, one-third of the cropland harvested is now producing for international trade and the $4.2 billion in receipts for sales is estimated to generate economic activity for the state economy equal to more than $17 billion.

On the national level, agricultural exports take the produce of about two in five cropland acres and generate about one-fourth of farmers' cash receipts.

TABLE 2. CALIFORNIA'S AGRICULTURAL EXPORT PROFILE 1981

Commodity	Farm Level Value of Exports as a Percentage of Total Value of Production	CA Export Value as a Percentage of Total U.S. Export Value at Port of Embarcation	Acres Needed to Produce Exports at State Average Yields
	Percentage	Percentage	Acres
FIELD CROPS			
Alfalfa Seed	7.3	27.7	6,810
Alfalfa Hay	3.1	40.2	38,730
Barley	1.5	0.6	9,680
Cotton Lint	79.1	47.1	1,186,543
Cottonseed	41.2	24.3	---
Dry Beans	38.8	51.4	81,264
Ladino Clover Seed	52.9	100.0	4,446
Rice	56.4	52.1	235,653
Wheat	59.1	3.9	822,943
Fruits and Nuts			
Almonds	61.5	100.0	196,791
Apricots	21.2	100.0	4,737
Avocados	7.4	87.5	3,514
Dates	28.7	100.0	1,157
Figs	12.4	100.0	566
Grapes			
Fresh	30.1	99.0	19,063
Raisins	21.3	100.0	36,616
Crushed	3.3	79.9	13,576
Grapefruit	24.7	12.0	5,370
Lemons	31.6	77.5	16,509
Olives	5.7	100.0	2,000
Oranges	23.3	59.9	42,416
Peaches			
Freestone	12.0	66.4	2,689
Clingstone	12.6	100.0	4,402
Pears	7.6	25.8	2,746
Plums	11.3	100.0	3,522
Prunes	39.3	100.0	26,754
Tangerines	4.8	20.0	399
Walnuts	33.4	100.0	60,000
Vegetables			
Asparagus	15.9	64.9	4,033
Broccoli	13.0	98.6	5,753
Cabbage	6.4	27.5	575
Carrots	5.8	51.2	2,148
Celery	8.1	71.7	1,815
Garlic	22.8	100.0	1,160
Lettuce	6.5	73.0	10,434
Onions	32.5	41.8	10,697
Bell Peppers	7.1	23.2	705
Potatoes	1.5	13.8	826
Strawberries	5.6	66.0	582
Tomatoes			
Fresh	8.0	30.8	2,417
Processing	2.8	87.5	6,167
Flowers and Plants	1.7	20.7	---
Livestock and Poultry			
Beef Cattle & Products	2.6	4.5	---
Dairy Products	2.7	12.2	---
Sheep	3.7	7.0	---
Chickens and Eggs	3.5	5.8	---
Turkeys	1.2	9.0	---
TOTAL	24.6	9.8	2,876,208

CALIFORNIA'S AGRICULTURAL EXPORT PROFILE, 1981

Table 2

The importance of exports to California's ranchers and growers is emphasized by combining data from Tables 3 and 5 with an estimate of the acreage required to produce the exported portion of each commodity. The relationship of exports to land utilization is of growing concern in discussions of agricultural policy. Extending this policy discussion can also involve water utilization and energy use, variables that are inter-related with land and exports.

Cotton is the most highly exported crop in California with four out of five bales produced being sold abroad. At state average yields 1.1 million acres are producing cotton for international markets. Based on a comparison to U.S. total exports of medium and long staple cotton, this constitutes nearly half (47%) of the nation's sales abroad. Growth of this export has made the Los Angeles port district the most important cotton shipping point in the U.S. Leading cotton customers are Pacific Rim countries; South Korea, Japan, Mainland China, Indonesia, Hong Kong, Taiwan, and Thailand.

Rice and wheat grown in California are more than half for export: 56% and 59%, respectively. Together these crops utilize more than one million acres of production for sale abroad. Among the remaining field crops about two-fifths of the cottonseed and dry beans and half of the ladino clover seed are exported.

Among the fruits and nuts, almond growers lead in the development of foreign markets with 62% being sold outside the U.S. in 1981. Others with substantial export percentages are: lemons (31.6), prunes (39.3), walnuts (33.4), fresh grapes (30.1), and dates (28.7). The acreage used by exports for the 19 crops estimated separately constitutes 25% of the total fruit and nut acreage in California.

In the specialty crops, California's leadership is especially evident: 100% of U.S. exports are grown in California for twelve crops -- ladino clover seed, almonds, apricots, dates, figs, raisins, olives, Clingstone peaches, plums, prunes, walnuts, and garlic. In another 15 crops, California produces more than half of U.S. exports including: dry beans (51.4), rice (52.1), avocados (87.5), fresh grapes (99.0) crushed grapes (79.9), lemons (77.5), oranges (59.9), Freestone peaches (66.4), asparagus (64.9), broccoli (98.6), carrots (51.2), celery (71.7), lettuce (73.0), strawberries (66.0), and processing tomatoes (87.5).

TABLE 3. CALIFORNIA'S PRINCIPAL CROP AND LIVESTOCK COMMODITIES ESTIMATED FARM VALUE OF PRODUCTION AND COMPARABLE FARM VALUE OF EXPORTS WITH COMPARISON TO U.S. TOTAL, 1981

Commodity	Unit	1981 California Total Quantity of		1981 California Farm Value of		Farm Level Export Value as Percent of Production	
		Production	Exports	Production	Exports	California	U.S.
		- - 000 Units - -		- - 000 Dollars - -		- Percent -	
Field Crops							
Alfalfa Seed	Lbs.	54,520	3,950	62,153	4,503	7.3	15.0
Alfalfa Hay	S/Tons	6,615	244	584,900	18,148	3.1	.4
Barley	Bu.	44,140	605	124,992	1,875	1.5	19.9
Cotton Lint 1/	Rba.	3,109	2,387	1,161,025	918,515	79.1	65.8
Cottonseed 1/	S/Tons	1,270	487	181,610	74,871	41.2	49.4
Dry Beans	Cwt.	3,813	1,479	124,685	48,362	38.8	62.8
Ladino Clover Seed	Lbs.	2,730	1,445	3,713	1,965	52.9	52.9
Rice 1/	Cwt.	36,386	20,520	513,043	289,336	56.4	48.2
Wheat	Bu.	107,085	63,377	439,568	259,780	59.2	60.5
Fruits and Nuts							
Almonds 1/	S/Tons	161	98	473,340	290,959	61.5	61.5
Apricots	S/Tons	87	18	26,642	5,645	21.1	20.3
Avocados	S/Tons	238	17	83,300	6,122	7.4	7.7
Dates	S/Tons	24	7	14,722	4,218	28.7	28.7
Figs	S/Tons	36	1.5	12,185	1,515	12.4	12.4
Grapes: All Fresh	S/Tons	405	122	172,530	51,989	30.1	19.0
All Raisins 1/	S/Tons	309	152	370,182	78,969	21.3	21.3
All Crushed 1/	S/Tons	2,896	82	544,448	149,070	3.3	2.9
Grapefruit - 64# Boxes	Box	8,060	1,987	37,362	9,222	24.7	25.3
Lemons - 76# Boxes	Box	24,800	7,842	95,480	30,192	31.6	31.6
Olives	S/Tons	43	2.6	28,896	1,632	5.7	5.7
Oranges - 75# Boxes	Box	66,250	15,397	285,388	66,361	23.3	12.8
Peaches: Freestone	S/Tons	221	26	54,243	6,498	12.0	2.8
Clingstone	S/Tons	601	70	115,024	14,484	12.6	12.6
Pears	S/Tons	376	29	65,134	4,963	7.6	8.7
Plums	S/Tons	198	22	61,028	6,915	11.3	13.1
Prunes	S/Tons	160	61	100,881	39,689	39.3	39.3
Tangerines - 75# Boxes	Box	1,860	89	7,589	364	4.8	8.0
Walnuts 1/	S/Tons	197	66	184,392	61,557	33.4	33.4
Vegetable Crops							
Asparagus	Cwt.	819	121	51,962	8,283	15.9	12.7
Broccoli	Cwt.	6,837	535	105,299	13,639	13.0	12.0
Cabbage	Cwt.	1,928	122	14,309	908	6.4	2.5
Carrots	Cwt.	10,082	625	103,294	6,014	5.8	5.9
Celery	Cwt.	12,532	1,020	135,556	11,032	8.1	7.8
Garlic	Cwt.	1,650	376	35,947	8,189	22.8	22.8
Lettuce	Cwt.	46,390	3,026	438,596	28,592	6.5	6.2
Onions	Cwt.	9,731	3,637	103,947	33,815	32.5	19.4
Bell Peppers	Cwt.	1,739	124	30,262	2,155	7.1	9.1
Potatoes	Cwt.	20,886	309	216,353	3,241	1.5	0.9
Strawberries	Cwt.	1,423	288	223,557	12,599	5.6	4.9
Tomatoes: Fresh	Cwt.	7,676	614	161,316	15,406	8.0	7.6
Proc. 2/	S/Tons	4,905	148	303,508	8,998	2.8	2.8
Flowers and Plants				928,770	16,081	1.7	
Livestock & Poultry							
Beef: Cattle and Calves				1,269,611	33,319	2.6	2.4
Dairy Products				1,945,623	37,091	1.9	2.7
Sheep				37,867	1,383	3.7	5.1
Chickens				42,889	732,392	5.9	4.6
Turkeys				182,067	2,140	1.2	2.0

1/ 1981 Exports compared to 1980 crop due to lag in time of sale after harvest.

2/ Compared to an average of the 1980 and 1981 crops.

COMPARISON OF CALIFORNIA'S AGRICULTURAL PRODUCTION WITH ESTIMATED EXPORTS

Table 3

Working from quantities of exports rather than the declared value at the port of embarkation as in Table 1, the farmgate value of California's agricultural exports is shown in Table 3. This farm level value is compared to total state production as estimated by the California Crop and Livestock Reporting Service. State average annual prices are used in arriving at the farm level value. Since exports of some commodities tend to be selected for their quality and ability to command high prices in foreign markets, this valuation is probably underestimated. A comparison of California to U.S. exports is arrived at the same way using exported quantities valued at national average farmgate prices. The percentage of California products going into international trade equals or exceeds the U.S. percentage in 64% of the listed commodities.

Calendar year export data presents problems when comparisons are made to a harvest period or marketing year that does not coincide with the calendar year. In cases as noted, the comparison has been made with the previous calendar year's crop since considerable delay is encountered in shipping products harvested late in the year.

FIELD CROPS:

The heaviest dependence on international trade is in cotton lint (79%) where Asian countries are processing U.S. cotton into fabrics and clothing for sale throughout the world. The recent trend to finer fabrics is helping to sustain sales of California's medium to long staple lengths. Rice, wheat, and ladino clover seed continue to have more than 50% of the annual crop marketed abroad.

FRUIT AND NUT CROPS:

Almond exports lead this group although the quantity and value declined in 1981 due to slower economic conditions worldwide, a strengthening of the U.S. dollar that has made U.S. products relatively more expensive and a larger than usual crop that tended to keep prices low. Crushed grapes, the second largest export in this group, includes wines and both processed and unprocessed juice, a large part of which is shipped to Canada. The fresh grapes category also includes quantities of wine grapes being exported fresh to Canada for winemaking.

Citrus fruits for which California has always been known, continue to be strong exports in spite of problems created by the finding of Mediterranean fruit flies and the subsequent embargoes and fumigation requirements. One estimate from the industry places one in ten boxes of Navel oranges into international trade and four in ten boxes of Valencias. In our calculations that include juice and oil, 23% of the total orange crop goes abroad. Avocados and tangerines have been singled out as separate categories for the first time in this data series. Avocados show promise of becoming a major fruit export, having already risen to 17,000 tons.

VEGETABLE CROPS:

Although exports tend to be less important to California vegetable growers, garlic and onions are exceptions in which exporting has gained considerable importance. With a 90% increase over 1980, garlic is now 23% exported and the gain is attributed to new markets in Brazil and Europe. Trade barriers have been lowered in Brazil and Eastern Europe and with a poor crop in Spain the usual Italian suppliers were not able to keep up with the demand, thus creating a void which California producers were ready to fill. About one-third of California onions are going abroad.

LIVESTOCK AND POULTRY:

The increase in poultry exports in 1980 due to increased shell egg sales was not repeated in 1981. A 16% decrease in value for all poultry and poultry products only lowered the percentage exported one point to 6%, by far the highest in the livestock and poultry category. Certain segments of the livestock industry are heavily involved in exports since a large part of the value of exported beef and beef products is in hides, tallow, and variety meats such as liver, tongues, etc. Dairy product exports include government distribution of surplus dairy products to needy nations, and subsidized sales negotiated under Public Law 480.

U.S. AGRICULTURAL EXPORTS

The total U.S. agricultural export data included here are for comparison to California's exports.

TABLE 4. U.S. AGRICULTURAL EXPORTS: VALUE BY COMMODITY, CALENDAR YEARS 1978-81

Commodity	1977	1978	1979	1980	1981	1980/81 Change
	- - - - - Million Dollars - - - - -					Percent
Meat & Meat Products	611	743	853	890	997	+ 12
Poultry Products	309	341	409	603	770	+ 28
Oils & Fats	593	586	740	769	760	- 1
Cattle Hides, Whole	516	625	887	614	614	0
Furskins	208	223	340	352	325	- 8
Dairy Products	174	146	125	153	299	+ 95
Other Hides & Skins	62	69	105	80	86	+ 8
Other	192	287	148	308	387	+ 26
Total Animals & Products	2,665	3,020	3,607	3,769	4,238	+ 12
Feed Grains, Excl. Products	4,862	5,853	7,739	9,759	9,377	- 4
Wheat & Wheat Products	2,932	4,602	5,586	6,660	8,157	+ 22
Rice	730	932	854	1,288	1,527	+ 19
Other	189	194	224	283	328	+ 16
Total Grains & Preparations	8,713	11,581	14,403	17,990	19,389	+ 8
Fresh Fruit, Excl. Citrus	199	234	291	356	438	+ 23
Fresh Citrus	259	332	356	382	417	+ 9
Dried Fruit	121	145	163	214	224	+ 5
Canned Fruit	95	126	109	128	126	- 2
Other Fruit	161	183	209	254	292	+ 15
Nuts & Preparations	240	324	584	757	581	- 23
Total Fruits & Nuts	1,075	1,344	1,712	2,091	2,078	- 1
Vegetables & Preparations	631	703	764	1,188	1,153	- 3
Cotton Raw, Excl. Linters	1,529	1,740	2,198	2,864	2,260	- 21
Tobacco, Unmanufactured	1,094	1,358	1,184	1,334	1,458	+ 9
Feeds & Fodders	592	609	838	1,126	1,066	- 5
Oilseeds & Products	6,615	8,189	8,886	9,393	9,555	+ 2
Other	721	870	996	1,477	1,742	+ 18
Total Other Prod. & Prep.	11,182	13,469	14,866	17,382	17,234	- 1
Total U.S. Agri. Exports	23,635	29,414	34,588	41,232	42,939	+ 4

SOURCE: U.S. Foreign Agricultural Trade, Statistical Report, Calendar Years 1978, 1980, & 1981. U.S. Department of Agriculture, Economic Research Service.

CALIFORNIA'S SHARE OF THE NATION'S AGRICULTURAL EXPORTS

Table 5

California's estimated agricultural exports for calendar year 1981 are presented in Table 5 on an individual item basis. U.S. total agricultural exports of each item are also shown, and the share of the nation's exports provided by California is calculated using this data. Values shown are based on port declarations and include freight, insurance, and port charges. This value is notably different from the farmgate value shown in Table 3.

Using these port values, California exports about one dollar in value for each ten dollars of U.S. agricultural exports. Among the listed commodity groups, California is providing more than 75% of the fruits and nuts and over half the vegetables, flowers, and berries. Because corn, soybeans, oilseed products, and tobacco are not among California's principal crops, the percentage of total U.S. agricultural exports is reduced to just under 10%.

The estimate of California's exports is made after considering the amounts being shipped through California's three port districts, U.S. total exports of each commodity, California's share in the national production of that commodity, and obtaining opinions and information from commodity traders and exporters. Additional information was obtained on fruit and vegetable shipments to Canada, and various U.S. government publications were consulted.

Each selected commodity was individually studied, and for some that are grown only in California (almonds, apricots, figs, dates, raisins, olives, prunes, walnuts, garlic, and ladino clover seed), the national export data are immediately applicable. For others, modifications of the port data were arrived at through the summarization of the individual pieces of information obtained from a wide variety of information sources. (See list on Page 2.)

Only when California grown products are not easily identifiable (hides and skins, tallow, meats, and poultry) is the California share of U.S. production used as a major factor in estimating the amount exported originating in California. This system is also used to estimate the "all other" category. The commodities not listed in Table 5 were divided into 14 groups following the pattern appearing in "Foreign Agricultural Trade of the United States, March/April 1982." California's share of each category was calculated from the totals in Table 16, pp. 65-75 and applied to the sum of values of the "all other" commodities in each classified group. For example, corn for grain, rye, oats, and sorghum for grain were classified as feed grains and U.S. total exports were multiplied by .0137, the calculated factor for California's share of feed grains. The sum of these calculations became the "all other" total and represents 20% of the total of California's estimated agricultural exports.

TABLE 5. CALIFORNIA'S PRINCIPAL AGRICULTURAL EXPORTS WITH COMPARISONS TO U.S. TOTAL AGRICULTURAL EXPORT
CALENDAR YEAR 1981

Commodity	Unit	Estimated Exports of California Origin		Total U.S. Exports		Estimated CA Exports Percentage of U.S. Exports (Value Basis)
		Quantity	Value	Quantity	Value	
		000 Units	000 $	000 Units	000 $	Percent
FIELD CROPS						
ALFALFA						
Alfalfa Hay Cubes	Stn.	158	17,930	323	39,005	
Alfalfa Meal, Dehydrated	Stn.	8	689	55	6,763	
Alfalfa Meal, Sun Cured	Stn.	78	8,900	122	13,787	
Alfalfa Seed, Uncertified	Lb.	903	1,523	4,128	5,183	
Alfalfa Seed, Certified	Lb.	3,047	5,120	12,969	18,786	
SUBTOTAL - ALL ALFALFA			34,162		83,524	40.9
BARLEY						
Barley, Unmilled	Bu.	605	1,928	94,915	299,398	0.6
COTTON						
Cotton: 1" to 1-1/8"	Rba.	1,897	767,322	4,092	1,660,367	
Cotton: Other > 1-1/8"	Rba.	490	214,465	970	423,695	
Cotton Linters: Felting Grade	Lb.	2,018	521	19,395	2,955	
Cotton Linters: Other	Lb.	49,540	6,945	102,069	14,386	
SUBTOTAL - ALL COTTON			989,253		2,101,403	47.1
COTTONSEED						
Cottonseed	Lb.	26,402	3,541	56,172	10,599	
Cottonseed Oil, Crude	Lb.	7,210	1,759	85,985	25,394	
Cottonseed Oil, Once Refined	Lb.	105,463	30,147	550,434	154,623	
Cottonseed Oil, Other	Lb.	46,632	13,376	55,970	16,069	
Cottonseed Oil, Cake & Meal	Stn.	37	4,466	134	13,678	
Cottonseed Oil, Hydrogenated	Lb.	2,454	923	9,912	3,124	
SUBTOTAL - ALL COTTONSEED			54,212		223,487	24.3
DRY BEANS						
Lima Beans	Lb.	49,308	15,745	49,308	15,745	
White Beans	Lb.	719	189	14,975	3,939	
Red Kidney Beans	Lb.	29,296	9,586	55,695	18,225	
Blackeye Beans (Cowpeas)	Lb.	25,884	7,814	25,884	7,814	
Other Beans	Lb.	35,826	10,666	139,403	41,501	
Other Peas (Garbanzos)	Lb.	6,862	1,674	6,862	1,674	
SUBTOTAL - ALL DRY BEANS			45,674		88,898	51.4
LADINO CLOVER SEED						
Ladino Clover Seed	Lb.	1,445	2,437	1,445	2,437	100.0
RICE						
Rice, Paddy or Rough	Lb.	121,583	11,672	406,037	42,306	
Rice, Husked, Brown, Medium	Lb.	1,472,205	286,848	2,024,473	393,229	
Rice, Husked, Brown, Short	Lb.	69,090	14,312	78,647	16,287	
Rice, Husked, Brown, Mixed	Lb.	217	48	1,725	273	
Rice, Parboiled, Other	Lb.	335	114	98,160	19,704	
Rice, Milled, Medium	Lb.	20,924	5,467	428,798	87,109	
Rice, Milled, Short	Lb.	2,340	642	16,491	4,347	
Rice, Milled, Mixed	Lb.	6,509	1,404	68,395	14,463	
Rice, Milled > 74% Broken	Lb.	1,195	277	42,600	5,057	
Rice, Milled, Other	Lb.	1,112	254	4,483	924	
Rice, Milled, for Relief	Lb.	1,212	364	101,604	21,603	
Rice Byproducts	Stn.	1	38	116	11,528	
SUBTOTAL - ALL RICE			321,440		616,830	52.1

TABLE 5: CALIFORNIA'S PRINCIPAL AGRICULTURAL EXPORTS WITH COMPARISONS TO U.S. TOTAL AGRICULTURAL EXPORTS CALENDAR YEAR 1981 (cont'd)

Commodity	Unit	Estimated Exports of California Origin		Total U.S. Exports		Estimated CA Exports Percentage of U.S. Exports (Value Basis)
		Quantity	Value	Quantity	Value	
		000 Units	000 $	000 Units	000 $	Percent
WHEAT						
Wheat, Unmilled, Relief	Bu.	---	---	2,555	12,111	
Wheat, Unmilled, Not Relief	Bu.	62,890	313,936	1,610,784	7,831,849	
Wheat Flour, Relief	Cwt.	---	---	2,947	29,668	
Wheat Flour, Not Relief	Cwt.	46	182	15,095	192,475	
Wheat Flour, Durum & Semolina	Cwt.	290	797	744	6,095	
Wheat Bulgur, Relief	Cwt.	55	612	7,711	67,305	
Wheat Bulgur, Not Relief	Cwt.	9	103	1,057	12,829	
Wheat, Other NEC	Cwt.	15	25	195	791	
Wheat Byproducts	Stn.	2	189	85	9,287	
SUBTOTAL - ALL WHEAT			315,844		8,162,410	3.9
FRUIT AND NUT CROPS						
ALMONDS						
Almonds, Not Shelled	Lb.	6,075	5,227	6,075	5,227	
Almonds, Shelled	Lb.	155,061	234,882	155,061	234,882	
Almonds, Prepared/Preserved	Lb.	36,795	67,215	36,795	67,215	
SUBTOTAL - ALL ALMONDS			307,324		307,324	100.0
APRICOTS						
Dried Apricots (Inc. Peaches, Nectarines and Pears)	Lb.	5,036	6,880	5,036	6,880	
Apricots, Prepared/Preserved	Lb.	2,659	1,370	2,659	1,370	
SUBTOTAL - ALL APRICOTS			8,250		8,250	100.0
AVOCADOS						
Fresh Avocados	Lb.	34,986	23,551	41,210	26,923	87.5
DATES						
Dried Dates	Lb.	13,695	13,108	13,695	13,108	100.0
FIGS						
Dried Figs	Lb.	2,988	2,132	2,988	2,132	100.0
GRAPES						
Fresh Grapes	Lb.	244,084	93,058	246,549	93,998	99.0
Dried Raisins	Lb.	131,833	123,153	131,833	123,153	100.0
Wines, Not Over 14% Alcohol	W/Gal.	7,036	23,990	7,406	25,253	
Other Wines From Grapes	W/Gal.	2,623	14,472	2,761	15,234	
Other Fermented Alcoholic Beverages	Gal.	564	1,636	593	1,722	
Grape Juice, Not Con.	Gal.	575	1,001	1,906	3,119	
Grape Juice, Con., Frz.	S/S Gal.	310	796	882	1,903	
Grape Juice, Con., Not Frz.	S/S Gal.	1,475	2,660	4,310	8,550	79.9
SUBTOTAL - ALL GRAPES			260,766		272,932	95.5
GRAPEFRUIT						
Fresh Grapefruit	Lb.	77,046	13,155	642,047	109,623	
Grapefruit Juice, Not Con.	Gal.	999	2,303	9,080	19,193	
Grapefruit Juice, Con., Frz.	S/S Gal.	1,566	2,505	14,238	20,873	
Grapefruit Juice, Con., Not Frozen	S/S Gal.	222	398	2,014	3,317	
SUBTOTAL - ALL GRAPEFRUIT			18,361		153,006	12.0

TABLE 5: CALIFORNIA'S PRINCIPAL AGRICULTURAL EXPORTS WITH COMPARISONS TO U.S. TOTAL AGRICULTURAL EXPORTS CALENDAR YEAR 1981 (cont'd)

Commodity	Unit	Estimated Exports of California Origin		Total U.S. Exports		Estimated CA Exports Percentage of U.S. Exports (Value Basis)
		Quantity	Value	Quantity	Value	
		000 Units	000 $	000 Units	000 $	Percent
LEMONS						
Fresh Lemons	Lb.	294,074	69,935	381,914	90,825	
Other Citrus, Con., Frz.	S/S Gal.	10,516	11,814	13,311	14,954	
Other Citrus, Con., Not Frz.	S/S Gal.	1,096	1,481	1,388	1,875	
Lemon Oil	Lb.	871	8,841	1,102	11,157	
SUBTOTAL - ALL LEMONS			92,044		118,811	77.5
TANGERINES						
Fresh Tangerines	Lb.	6,691	1,456	33,456	7,281	20.0
ORANGES						
Fresh Oranges	Lb.	761,363	166,125	895,721	195,441	
Orange Juice, Not Con.	Gal.	2,452	5,183	9,080	19,193	
Orange Juice, Con., Frz. < 32 oz.	S/S Gal.	9,226	15,924	34,170	58,978	
Orange Juice, Con., Frz. 32 oz. - 1 Gal.	S/S Gal.	2,356	3,755	8,725	13,906	
Orange Juice, Frz. > 1 Gal.	S/S Gal.	8,740	10,462	32,370	38,746	
Orange Juice, Con., Not Frz.	S/S Gal.	1,813	2,627	6,715	9,728	
Orange Oil	Lb.	804	673	7,303	6,111	
SUBTOTAL - ALL ORANGES			204,749		342,103	59.9
SUBTOTAL - ALL CITRUS			316,610		621,201	
OLIVES						
Canned Olives	Lb.	4,144	3,299	4,144	3,299	
Other Olives	Lb.	974	595	974	595	
SUBTOTAL - ALL OLIVES			3,894		3,894	100.0
PEACHES						
Fresh Peaches and Nectarines	Lb.	52,826	13,022	77,962	19,601	66.4
Canned Peaches	Lb.	116,953	40,153	116,953	40,153	
Canned Mixtures (45% Peaches)	Lb.	49,637	20,721	49,637	20,721	
SUBTOTAL - ALL PEACHES			73,896		80,475	91.8
PEARS						
Fresh Pears	Lb.	20,721	4,288	117,554	27,192	
Canned Pears	Lb.	3,563	1,500	6,340	2,669	
Canned Mixtures (30% pears)	Lb.	33,091	13,814	110,305	46,047	
SUBTOTAL - ALL PEARS			19,602		75,908	25.8
PLUMS						
Fresh Plums	Lb.	44,758	14,591	59,304	19,891	73.4
PRUNES						
Dried Prunes	Lb.	121,560	71,291	121,560	71,291	100.0
WALNUTS						
Walnuts, Not Shelled or Preserved	Lb.	9,545	14,633	9,545	14,633	
Walnuts, Shelled	Lb.	106,048	73,870	106,048	73,870	
SUBTOTAL - ALL WALNUTS			88,503		88,503	100.0

TABLE 5: CALIFORNIA'S PRINCIPAL AGRICULTURAL EXPORTS WITH COMPARISONS TO U.S. TOTAL AGRICULTURAL EXPORTS CALENDAR YEAR 1981 (cont'd)

Commodity	Unit	Estimated Exports of California Origin		Total U.S. Exports		Estimated CA Exports Percentage of U.S. Exports (Value Basis)
		Quantity	Value	Quantity	Value	
		000 Units	000 $	000 Units	000 $	Percent
VEGETABLES, FLOWERS, AND BERRIES						
ASPARAGUS						
Fresh Asparagus	Lb.	11,661	10,121	16,223	13,319	
Canned Asparagus	Lb.	344	394	4,927	2,887	
SUBTOTAL - ALL ASPARAGUS			10,515		16,206	64.9
BROCCOLI						
Fresh Broccoli	Lb.	53,488	12,535	54,456	12,791	98.0
CABBAGE						
Fresh Cabbage	Lb.	12,239	1,405	48,566	5,116	27.5
CARROTS						
Fresh Carrots	Lb.	57,312	8,930	87,395	15,141	
Frozen Carrots	Lb.	5,165	1,345	18,918	4,926	
SUBTOTAL - ALL CARROTS			10,275		20,067	51.2
CELERY						
Fresh Celery	Lb.	101,960	14,418	141,676	20,100	71.7
GARLIC						
Fresh Garlic	Lb.	14,514	9,110	14,514	9,110	
Dried Garlic	Lb.	5,763	6,114	5,763	6,114	
SUBTOTAL - ALL GARLIC			15,224		15,224	100.0
LETTUCE						
Fresh Lettuce	Lb.	302,559	36,709	388,901	50,286	73.0
ONIONS						
Fresh Onions	Lb.	105,170	16,365	420,135	68,901	
Dried Onions	Lb.	28,730	26,083	37,217	32,717	
SUBTOTAL - ALL ONIONS			42,448		101,618	41.8
PEPPERS						
Fresh Peppers	Lb.	12,385	2,503	53,609	10,735	23.3
POTATOES						
Fresh Potatoes	Lb.	26,396	4,617	261,399	35,286	
Potatoes For Seed	Lb.	4,468	496	18,648	1,724	
SUBTOTAL - ALL POTATOES			5,113		37,010	13.8
TOMATOES						
Fresh Tomatoes	Lb.	61,438	15,406	192,342	50,023	
Canned Tomato Pulp (Puree)	Lb.	1,826	583	2,087	666	
Canned Tomato Sauce (Ex. Chili)	Lb.	7,887	2,552	9,014	2,917	
Canned Tomato Paste	Lb.	21,485	9,772	24,554	11,168	
Canned Other Tomatoes	Lb.	28,169	7,543	32,193	8,620	
Tomato Juice and Vegetable Juice (> 70% Tomato)	Gal.	3,393	5,412	3,878	6,185	
Catsup and Chili Sauce	Lb.	24,285	9,380	27,754	10,720	
SUBTOTAL - ALL TOMATOES			50,648		90,299	56.1

TABLE 5: CALIFORNIA'S PRINCIPAL AGRICULTURAL EXPORTS WITH COMPARISONS TO U.S. TOTAL AGRICULTURAL EXPORTS CALENDAR YEAR 1981 (cont'd)

Commodity	Unit	Estimated Exports of California Origin		Total U.S. Exports		Estimated CA Exports Percentage of U.S. Exports (Value Basis)
		Quantity	Value	Quantity	Value	
		000 Units	000 $	000 Units	000 $	Percent
FLOWERS AND PLANTS						
Cut Flowers	---		5,156		9,512	
Other Cut Plant Materials	---		691		23,974	
Bulbs, Roots, Corms, Etc.	---		1,083		3,625	
Fruit and Nut Plants	---		815		6,256	
Rose Plants	---		1,142		2,283	
Nursery Stock, N.S.P.F.	---		2,423		26,812	
Flower Seeds	Lb.		4,771		5,301	
SUBTOTAL - ALL FLOWERS & PLANTS			16,081		77,763	20.7
STRAWBERRIES						
Fresh Strawberries	Lb.	24,263	10,195	28,337	15,667	
Frozen Strawberries	Lb.	4,573	2,758	6,561	3,957	
SUBTOTAL - ALL STRAWBERRIES			12,953		19,624	66.0
LIVESTOCK AND POULTRY						
BEEF, CATTLE AND PRODUCTS						
Beef Bulls, for Breeding	No.	1	1,106	8	8,064	
Beef Females, for Breeding	No.	1	830	7	6,747	
Cattle, Not for Breeding	No.	1	439	56	26,574	
Beef, Fresh or Frozen, with Bone	Lb.	784	1,467	16,686	31,209	
Beef, Fresh or Frozen, without Bone	Lb.	5,452	9,905	116,003	210,737	
Veal, Fresh or Frozen	Lb.	226	276	4,810	5,870	
Beef Tongues, Fresh or Frozen	Lb.	3,095	3,300	65,856	70,220	
Beef Livers, Fresh or Frozen	Lb.	3,309	1,810	70,412	38,506	
Other Beef Offal	Lb.	8,634	6,683	183,697	142,183	
Veal Offal	Lb.	49	37	1,047	787	
Beef, Ex. Carcass	Lb.	629	1,452	13,391	30,883	
Veal, Ex. Carcass	Lb.	17	49	358	1,053	
Beef and Veal, Canned	Lb.	293	255	6,226	5,432	
Beef and Veal, Otherwise Prepared	Lb.	5,035	696	107,139	14,816	
Whole Cattle Hides	Pc.	858	26,998	19,509	613,588	
Whole Calf Skins	Pc.	119	1,059	2,542	24,065	
Cut Cattle Hides/Special Cuts	Pc.	9	160	194	3,643	
Other Cut Cattle Hides	Lb.	1,441	436	32,739	9,899	
Tallow, Edible	Lb.	6,063	1,359	137,805	30,878	
Tallow, Inedible	Lb.	133,129	28,378	3,025,651	644,944	
SUBTOTAL - ALL CATTLE & PRODUCTS			86,695		1,920,098	4.5
DAIRY, CATTLE AND PRODUCTS						
Dairy Bulls, for Breeding	No.	---	210	1	2,977	
Dairy Females, for Breeding	No.	2	3,748	16	21,106	
Bull Semen	---		900		20,665	
Fluid Milk and Cream	Gal.	1,314	3,923	4,348	11,902	
Evaporated Milk and Cream, Canned	Lb.	19,196	8,199	31,899	13,748	
Condensed Milk and Cream, Canned	Lb.	1,432	505	2,313	816	
Evap. or Cond. Milk & Cream, Bulk	Lb.	53	35	696	204	
Nonfat Dry Milk, Relief	Lb.	21,340	4,053	128,807	25,529	
Nonfat Dry Milk, Not Relief	Lb.	14,719	3,768	77,507	18,360	
Other Dried Milk and Cream	Lb.	342	1,148	120,486	58,631	
Butter	Lb.	194	228	118,127	89,005	
Cheddar Cheese	Lb.	62	208	1,087	1,773	
Am. Type Cheeses, Exclude Cheddar	Lb.	245	297	3,119	4,429	
All Other Cheeses	Lb.	2,188	4,270	8,429	14,888	
Infant's Drd. Milk Base Suppl.	Lb.	869	1,025	10,775	14,820	
Oth. Drd. Milk Base/Diet Suppl.	Lb.	127	96	2,249	1,687	
Ice Cream	Gal.	259	679	1,138	2,676	

TABLE 5: CALIFORNIA'S PRINCIPAL AGRICULTURAL EXPORTS WITH COMPARISONS TO U.S. TOTAL AGRICULTURAL EXPORTS CALENDAR YEAR 1981 (cont'd)

Commodity	Unit	Estimated Exports of California Origin		Total U.S. Exports		Estimated CA Exports Percentage of U.S. Exports (Value Basis)
		Quantity	Value	Quantity	Value	
		000 Units	000 $	000 Units	000 $	Percent
DAIRY, CATTLE AND PRODUCTS-cont'd						
Milk Products, NEC	---		785		4,886	
Whey, Fluid	Gal.	1	1	24	129	
Whey, Dried	Lb.	10,098	4,473	23,058	9,346	
Yogurt and Fermented Milk	Lb.	562	318	2,087	1,250	
SUBTOTAL - ALL DAIRY CATTLE AND PRODUCTS			38,869		318,827	12.2
SHEEP						
Sheep, Live	No.	---	54	221	9,068	
Sheep/Lamb Meat, Fr. or Frz.	Lb.	199	258	2,142	2,775	
Sheep and Lamb Offal	Lb.	946	693	10,167	7,454	
Whole Skins, Sheep, Lambs, with wool	No.	126	803	1,356	8,627	
Sheep, Lamb Skins w/o wool	Pc.	115	634	1,232	6,821	
SUBTOTAL - ALL SHEEP, LAMB AND PRODUCTS			2,442		34,745	7.0
CHICKENS						
Baby Chicks, Breeder Stock	No.	301	504	15,348	44,804	
Baby Chicks, Ex. Breeder Stock	No.	253	102	23,665	8,732	
Chickens, Fr./Frz., Whole/Young	Lb.	686	372	296,563	169,540	
Other Chickens, Fr./Frz., Whole	Lb.	200	120	39,335	22,752	
Chicken Parts, Fr. or Frz.	Lb.	7,302	3,860	422,580	212,524	
Eggs for Hatching	Doz.	76	314	27,247	45,872	
Other Eggs, In Shell	Doz.	17,827	12,160	92,607	64,064	
Dried Egg Whites	Lb.	3,618	3,244	9,973	16,077	
Dried Whole Eggs	Lb.	1,349	2,421	6,125	10,401	
Egg Whites, Not Dried	Lb.	4,808	3,298	17,172	10,580	
Other Eggs, Not Dried	Lb.	10,015	10,193	42,797	28,226	
SUBTOTAL - ALL CHICKENS AND PRODUCTS			36,588		633,572	5.8
TURKEYS						
Turkey Poults, Live	No.	70	50	1,545	1,437	
Whole Turkeys, Fr. or Frz.	Lb.	2,720	2,268	17,389	13,561	
Turkey Parts, Fr. or Frz.	Lb.	2,355	1,857	45,594	31,363	
SUBTOTAL - ALL TURKEYS AND PRODUCTS			4,175		46,361	9.0
SUBTOTAL - ALL LIVESTOCK			168,805		2,953,603	
TOTAL - PRINCIPAL COMMODITIES			3,368,064			
TOTAL - ALL OTHER COMMODITIES			830,065			
TOTAL - ALL AGRICULTURAL EXPORTS			4,198,129		42,939,000	

LIST OF ABBREVIATIONS

AVG	Average
BEV	Beverages
BU	Bushels
CND	Canned
CON	Concentrated Concentrates
COND	Condensed
CRCSS	Carcass
CRD	Carded
CWT	Hundredweight 100 Pounds
DOZ	Dozen
DRD	Dried
DRM	Durum
EVAP	Evaporated
FLR	Flour
FR	Fresh
FRZ	Frozen
GAL	Gallon
INC	Including
LB	Pound
LTS	Liters
N/ NT	Not
NEC Nec	Not Elsewhere Classified
NO	Number
NOT CON	Not Concentrated
NSPF n.s.p.f.	Not Specifically Provided For
OTH	Other
OV	Over
OZ	Ounces
PC	Piece
PRBL	Parboiled
PREP	Preparations, Prepared
PRES	Preserved
RBA	Running Bale 480 Lbs. Net Avg.
RELF	Relief
SC	Sauce
SHLLD	Shelled
S/SG S/S Gal	Single Strength Gallon
S/Ton STN	Short Ton 2,000 Lbs.
VEG	Vegetable
W/	With
Wg. W. Gal.	Wine Gallon
W/O	Without
X EX EXC	Excluding/ Except

Cover photo courtesy of Port of Oakland.